# Comparisons of Job Characteristics

**Focus Occupation: Nuclear Medicine Technologists (29-2033)**
**Associated Occupation: Radiation Therapists (29-1124)**

Compare Knowledge
Compare Skills
Compare Abilities
Compare Detailed Work Activities
Compare Tools and Technologies

| | |
|---|---|
| << | Focus occupation element is much lower |
| < | Focus occupation element is lower |
| 0 | Focus occupation element is at a similar level |
| > | Focus occupation element is at a higher level |
| >> | Focus occupation element is at a much higher level |

## Knowledge — Similarity of Focus Occupation to Associated Occupation: 90

**Focus Occupation: Nuclear Medicine Technologists (29-2033)**
**Associated Occupation: Radiation Therapists (29-1124)**

| Associated Occupation's Key Knowledge Elements | Average Rating, All Occupations | Associated Occupation's Rating | Focus Occupation's Rating | | Evaluation of Focus Occupation |
|---|---|---|---|---|---|
| Customer and Personal Service | 11.3 | 17.1 | 17.9 | 0 | Current knowledge level may be sufficient |
| Medicine and Dentistry | 3.7 | 14.3 | 12.9 | < | Expanded education and/or training may be required |
| Psychology | 6.4 | 12.8 | 9.3 | << | Extensive education and/or training may be required |
| Biology | 3.7 | 12.4 | 12.0 | 0 | Current knowledge level may be sufficient |
| Physics | 4.3 | 11.9 | 9.9 | < | Expanded education and/or training may be required |
| Philosophy and Theology | 3.2 | 7.1 | 4.0 | << | Extensive education and/or training may be required |

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

## Skills — Similarity of Focus Occupation to Associated Occupation: 82

**Focus Occupation: Nuclear Medicine Technologists (29-2033)**
**Associated Occupation: Radiation Therapists (29-1124)**

| Associated Occupation's Key Skills Elements | Average Rating, All Occupations | Associated Occupation's Rating | Focus Occupation's Rating | | Evaluation of Focus Occupation |
|---|---|---|---|---|---|
| Operation Monitoring | 6.6 | 10.8 | 8.6 | < | A higher skill level may be required |
| Operation and Control | 5.4 | 10.7 | 6.7 | << | Extensive development of skills in this area may be required |
| Quality Control Analysis | 5.9 | 9.7 | 8.1 | < | A higher skill level may be required |
| Operations Analysis | 5.0 | 7.9 | 3.2 | << | Extensive development of skills in this area may be required |
| Equipment Selection | 3.3 | 6.9 | 4.0 | << | Extensive development of skills in this area may be required |

| Equipment Maintenance | 3.5 | 6.7 | 5.9 | < | A higher skill level may be required |
|---|---|---|---|---|---|

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

## Abilities    Similarity of Focus Occupation to Associated Occupation:   92

**Focus Occupation: Nuclear Medicine Technologists (29-2033)**
**Associated Occupation: Radiation Therapists (29-1124)**

| Associated Occupation's Key Abilities Elements | Average Rating, All Occupations | Associated Occupation's Rating | Focus Occupation's Rating | | Evaluation of Focus Occupation |
|---|---|---|---|---|---|
| Problem Sensitivity | 11.1 | 13.9 | 10.8 | << | Extensive improvement in abilities may be required |
| Information Ordering | 9.9 | 11.9 | 11.5 | 0 | Current ability level may be sufficient |
| Arm-Hand Steadiness | 6.8 | 11.1 | 7.6 | << | Extensive improvement in abilities may be required |
| Perceptual Speed | 7.4 | 9.2 | 8.1 | < | Some improvement in abilities may be required |
| Speed of Limb Movement | 3.2 | 5.6 | 2.9 | << | Extensive improvement in abilities may be required |

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

## Activities that Both Occupations Have in Common    Similarity of Focus Occupation to Associated Occupation:  97

**Focus Occupation: Nuclear Medicine Technologists (29-2033)**
**Associated Occupation: Radiation Therapists (29-1124)**

| Work Activities | Exclusivity of Activity |
|---|---|
| Administer injections | 60 |
| Administer radioactive isotopes | 95 |
| Calculate radiation dosage, following physician's prescription | 95 |
| Collect clinical data | 56 |
| Communicate technical information | 4 |
| Follow clinical radiation safety procedures | 77 |
| Follow patient care procedures | 60 |
| Make presentations on health or medical issues | 50 |
| Observe patient condition | 48 |
| Prepare radioactive isotopes for therapeutic applications | 99 |
| Understand technical operating, service or repair manuals | 6 |
| Use knowledge of medical terminology | 40 |
| Use sanitation practices in health care settings | 48 |

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

| Tools and Technologies that Both Occupations Have in Common | Similarity of Focus Occupation to Associated Occupation:  87 |
|---|---|

**Focus Occupation: Nuclear Medicine Technologists (29-2033)**
**Associated Occupation: Radiation Therapists (29-1124)**

| Tools and Technologies | Exclusivity |
|---|---|
| Computers | 1 |
| Content authoring and editing software | 1 |
| Dosimetry equipment | 43 |
| Emergency medical services resuscitation products | 15 |
| Indicating and recording instruments | 2 |
| Industry specific software | 1 |
| Medical computed tomography CT or CAT systems and related products | 27 |
| Medical imaging processing equipment and supplies | 33 |
| Medical linear accelerator intensity modulated radiation therapy IMRT products | 80 |
| Medical positron emission tomography PET equipment and related products | 56 |
| Medical radiation detection or monitoring products | 31 |
| Medical radiological positioning aids | 47 |
| Medical radiological shielding and protection products | 31 |
| Medical ultrasound and doppler and echo imaging products | 19 |
| Vision protection and accessories | 3 |

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.